# Point Coverage SCASMPL: Sediment sample data for the Channel Islands and Santa Barbara Channel Region

Metadata also available as

**Frequently-anticipated questions:**



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## What does this data set describe?

*Title:*

Point Coverage SCASMPL: Sediment sample data for the Channel Islands and Santa Barbara Channel Region

*Abstract:*

Point data of surficial sediment textures from usSEABED, standardized and data-mined from existing studies, show the spatial extent of gravels, sands, muds, and areas of hard bottom in the Channel Islands and Santa Barbara regions.

*Supplemental_Information:*

Version 2.0 of scasmpl is a updated subset of the usSEABED database in the area of interest. Regional publications of the entire usSEABED are pending; these publications will contain more complete data and information about usSEABED and the data-mining process. Those data are in comma-delimited format, and can be used with geographic information systems (GIS) software and most database softwares.

Any use of trade, product, or firm names is for descriptive purposes only and does not imply endorsement by the U.S. Government. Although this Federal Geographic Data Committee-compliant metadata file is intended to document the data set in nonpropriety form, as well as ArcExplorer format, this metadata may include some ArcExplorer-specific terminology.

1. **How should this data set be cited?**

   U.S. Geological Survey, and Reid, Jane A. , 02282005, Point Coverage SCASMPL: Sediment sample data for the Channel Islands and Santa Barbara Channel Region: U.S. Geological Survey, Santa Cruz, CA.

   Online Links:

   - <http://pubs.usgs.gov/of/2005/1170/index.html>

2. **What geographic area does the data set cover?**

   *West_Bounding_Coordinate:* -121.10000
   *East_Bounding_Coordinate:* -118.80000
   *North_Bounding_Coordinate:* 34.568
   *South_Bounding_Coordinate:* 33.7

3. **What does it look like?**

4. **Does the data set describe conditions during a particular time period?**

   Calendar_Date:
   *Currentness_Reference:* Date of data processing

5. **What is the general form of this data set?**

   *Geospatial_Data_Presentation_Form:* point data

6. **How does the data set represent geographic features?**

   a. **How are geographic features stored in the data set?**

      This is a Point data set. It contains the following vector data types (SDTS terminology):

      - Point (2393)

   b. **What coordinate system is used to represent geographic features?**

      The map projection used is NAD_1983_UTM_Zone_10N.

      Projection parameters:

*Straight-Vertical_Longitude_from_Pole:* -123
*Standard_Parallel:* 0.999600
*False_Easting:* 500000.000
*False_Northing:* 0.000

Planar coordinates are encoded using coordinate pair
Abscissae (x-coordinates) are specified to the nearest .000512
Ordinates (y-coordinates) are specified to the nearest .000512
Planar coordinates are specified in meters

The horizontal datum used is North American Datum of 1983.
The ellipsoid used is Geodetic ReferenceSystem 80.
The semi-major axis of the ellipsoid used is 6378137.
The flattening of the ellipsoid used is 1/298.2572222.

7. **How does the data set describe geographic features?**

**`seafloor sample`**
point data within SCASMPL (Source: SCAMPL.shp)

**`latitude`**
global location (Source: lineage source)

| Range of values | |
|---|---|
| **Minimum:** | 33.7 |
| **Maximum:** | 34.568 |
| **Units:** | decimal degrees |
| **Resolution:** | .00001 |

**`longitude`**
global location (Source: lineage source)

| Range of values | |
|---|---|
| **Minimum:** | -121.0833 |
| **Maximum:** | -118.8 |
| **Units:** | decimal degrees |
| **Resolution:** | .00001 |

**`water depth`**
lineage source (Source: SCASMPL.shp)

| Value | Definition |
|---|---|
| -99 | no information |

| Range of values |
|---|

| | |
|---|---|
| **Minimum:** | 2 |
| **Maximum:** | 2610 |
| **Units:** | meters |
| **Resolution:** | 1.0 |

**SampleTop**

top of subsample (Source: lineage source)

| Value | Definition |
|---|---|
| -99 | no information |

| Range of values | |
|---|---|
| **Minimum:** | 0 |
| **Maximum:** | 0.03 |
| **Units:** | meters |
| **Resolution:** | 0.001 |

**bottom of subsample**

meters (Source: lineage source)

| Value | Definition |
|---|---|
| -99 | no information |

| Range of values | |
|---|---|
| **Minimum:** | 0 |
| **Maximum:** | 7.94 |
| **Units:** | meters |
| **Resolution:** | 0.001 |

**DataSetKey**

unique link to source data sets (Source: processing software dbSEABED MNEs)

| Value | Definition |
|---|---|
| 17 | SCCWRP94 |
| 82 | Deck 41 nodcref# 619 |
| 187 | Deck 41 nodcref# 831 |
| 194 | Deck 41 nodcref# 871 |
| 204 | NS&T MusselWatch |

| | |
|---|---|
| 216 | Smithsonian NOS database |
| 237 | USGS MF-737 |
| 238 | USGS OFR 92-342 |
| 242 | NGDC MGGID 09005058 |
| 261 | NGDC MGGID 09185006 |
| 262 | NGDC MGGID 09005019 |
| 265 | NGDC MGGID 09695001 |
| 268 | Scholl MS 1959 |
| 283 | University of Southern California SEDDATA database |
| 284 | Smith PhD. 1970 |
| 285 | Barnes PhD 1970 |
| 286 | Emery and Shepard, 1941 |
| 288 | Emery and Hulsemann, 1963 |
| 303 | Wright PhD 1967 |
| 304 | Gorsline PhD 1958 |
| 308 | SCCWRP Bight 98 |

**SiteKey**

unique relational key for individual sites (Source: processing software dbSEABED MNEs)

| Range of values | |
|---|---|
| **Minimum:** | 1 |
| **Maximum:** | 1030 |
| **Units:** | unitless |
| **Resolution:** | 1 |

**SiteKey**

unique relational key for individual subsamples (Source: processing software dbSEABED MNEs)

| Range of values | |
|---|---|
| **Minimum:** | 1 |
| **Maximum:** | 1272 |
| **Units:** | unitless |
| **Resolution:** | 1 |

**Sampler**

non-unique label of sampler type and penetration depth (m) (Source: lineage source, processing software dbSEABED MNEs)

| Value | Definition |
|---|---|
| BoxCore | unspecified box core sampler |
| DietzLaFond | Dietz La Fond snapper sampler |
| GravityCore | unspecified gravity corer |
| PipeDredge | unspecified pipe dredge |
| PistonCore | unspecified piston corer |
| ShipekGrab | Shipek grab sampler |
| VanVeenGrab | Van Veen grab sampler |
| UnIDCamera | unidentified camera |
| UnIDCore | unidentified corer |
| UnIDCorer | unidentified corer |
| UnIDDevice | unidentified sampling device |
| UnIDGrab | unidentified grab sampler |
| rcvy= | no sampler information; recovery amount = XXX |

**DataTypes**

Key to source-type of information in the following 20 fields (Source: processing software dbSEABED MNEs)

| Value | Definition |
|---|---|
| E | Extracted data (directly measured, lab-based analytical data) |
| P | Parsed data (numerical data from descriptive word-based data passed through fuzzy set theory filters) |
| C | Calculated data (numerical data from calculations using extracted and parsed data and various assumptions, published models, and empirical relationships) |
| x | no information |

**Gravel**

% gravel in sample (Source: Udden-Wentworth size class)

| Value | Definition |
|---|---|
| -99 | no information |

| Range of values |
|---|

| | |
|---|---|
| **Minimum:** | 0 |
| **Maximum:** | 100 |
| **Units:** | percent |
| **Resolution:** | 1 |

**Sand**

% sand in sample (Source: Udden-Wentworth size class)

| Value | Definition |
|---|---|
| -99 | no information |

| Range of values | |
|---|---|
| **Minimum:** | 0 |
| **Maximum:** | 100 |
| **Units:** | percent |
| **Resolution:** | 1 |

**Mud**

% mud in sample (Source: Udden-Wentworth size class)

| Value | Definition |
|---|---|
| -99 | no information |

| Range of values | |
|---|---|
| **Minimum:** | 0 |
| **Maximum:** | 100 |
| **Units:** | percent |
| **Resolution:** | 1 |

**Clay**

% clay in sample (Source: Udden-Wentworth size class)

| Value | Definition |
|---|---|
| -99 | no information |

| Range of values | |
|---|---|
| **Minimum:** | 0 |
| **Maximum:** | 100 |

| Units: | percent |
|---|---|
| Resolution: | 1 |

**Grainsize**

consensus of mean and median grainsize (Source: processing software dbSEABED MNEs)

| Value | Definition |
|---|---|
| -99 | no information |

| Range of values | |
|---|---|
| Minimum: | -7 |
| Maximum: | 11 |
| Units: | phi |
| Resolution: | 0.1 |

**Sorting**

Standard deviation (grainsize dispersion) (Source: processing software dbSEABED MNEs)

| Value | Definition |
|---|---|
| -99 | no information |

| Range of values | |
|---|---|
| Minimum: | 0 |
| Maximum: | 5 |
| Units: | phi |
| Resolution: | 0.1 |

**SeabedCls**

Seabed Class: Arithmetic dominance of given compositional or feature terms or equivalents in lithologic or seafloor descriptions to defined Seafloor Class (Source: processing software dbSEABED MNEs)

| Value | Definition |
|---|---|
| Bedforms | Bedforms: 'ripple', 'sandwave', 'scour' |
| CalcCrustNod | Calcareous crusts and nodules: 'limestone', 'calcareous concretion', carbonate nodule, 'calcareous crust' |
| CalcPelag | Calcareous pelagic: 'planktonic forams', 'nannofossils', 'pteropods', 'calcareous ooze' |

| | |
|---|---|
| CarbMud | Carbonate mud: 'calcareous mud', 'micrite', 'ooze', calcareous ooze' |
| MnNodule | Manganese nodules: 'manganese nodule', 'manganese crust', 'manganese stained', 'manganese oxide', manganese micronodule' |
| Phosphate | Phosphate: 'phosphorite' |
| Shell | Shell: 'shell', 'mollusc', bivalve', 'gastropod', 'scaphopod', 'brachiopod' |
| SilcPelag | Siliceous pelagic: 'siliceous ooze', 'radiolaria', 'silicoflagellate', 'diatom' |
| Terrigenous | Terrigenous: 'terrigenous', 'heavy mineral', 'quartz', 'feldspar', 'mafic' |
| Volcanic | Volcanic: 'volcanic', 'basalt', 'pumice', 'mafic', 'tuff' |
| - | no dominant compositional or feature information |

**`ClsMship`**

Class Membership; percent membership of sample to Seabed Class (Source: processing software dbSEABED MNEs)

| Value | Definition |
|---|---|
| -99 | no information |

| Range of values | |
|---|---|
| **Minimum:** | 0 |
| **Maximum:** | 100 |
| **Units:** | unitless |
| **Resolution:** | 1.0 |

**`FolkCode`**

Grainsize classification (Source: Folk, Andrews, and Lewis, 1970)

| Value | Definition |
|---|---|
| (g)M | slightly gravelly mud |
| (g)mS | slightly gravelly muddy sand |
| (g)sM | slightly gravelly sandy mud |
| (g)S | slightly gravelly sand |
| G | gravel |
| gM | gravelly mud |
| gmS | gravelly muddy sand |

| | |
|---|---|
| gS | gravelly sand |
| M | Mud |
| mG | muddy gravel |
| mS | muddy sand |
| msG | muddy sandy gravel |
| S | sand |
| sG | sandy gravel |
| sM | sandy mud |
| H | hard bottom |
| - | not determinable |

**RockMship**

Rock Membership; percent membership of sample to rock class (Source: processing software dbSEABED MNEs)

| Range of values | |
|---|---|
| **Minimum:** | 0 |
| **Maximum:** | 100 |
| **Units:** | unitless |
| **Resolution:** | 1.0 |

**WeedMship**

Weed Membership; percent membership of sample to Weed Class (Source: processing software dbSEABED MNEs)

| Range of values | |
|---|---|
| **Minimum:** | 0 |
| **Maximum:** | 100 |
| **Units:** | unitless |
| **Resolution:** | 1.0 |

**Carbonate**

carbonate in sample (Source: processing software dbSEABED MNEs)

| Value | Definition |
|---|---|
| -99 | no information |

| Range of values |
|---|

| | |
|---|---|
| **Minimum:** | 0 |
| **Maximum:** | 100 |
| **Units:** | percent; may be fuzzy membership to carbonate class |
| **Resolution:** | 0.1 |

**`MunslCode`**
Munsell Color Code (Source: GSA Rock-Color Chart, 1991)

*non-unique code based on HVC (Hue, Value, Chroma)*

**`Organic carbon`**
organic carbon in sample (Source: processing software dbSEABED MNEs)

| Value | Definition |
|---|---|
| -99 | no information |

| Range of values | |
|---|---|
| **Minimum:** | 0 |
| **Maximum:** | 100 |
| **Units:** | percent; may be fuzzy membership to organic carbon set |
| **Resolution:** | 0.1 |

**`LgShearStr`**
Log Shear Stress (Source: processing software dbSEABED MNEs)

| Value | Definition |
|---|---|
| -99 | no information |

| Range of values | |
|---|---|
| **Minimum:** | 1 |
| **Maximum:** | 4 |
| **Units:** | kiloPascals |
| **Resolution:** | 0.01 |

**`Porosity`**
Porosity (Source: processing software dbSEABED MNEs)

| Value | Definition |
|---|---|
| -99 | no information |

| Range of values | |
|---|---|
| **Minimum:** | 28 |
| **Maximum:** | 95 |
| **Units:** | percent |
| **Resolution:** | 0.01 |

**PWaveVel**

P-wave velocity (Source: processing software dbSEABED MNEs)

| Value | Definition |
|---|---|
| -99 | no information |

| Range of values | |
|---|---|
| **Minimum:** | 1464 |
| **Maximum:** | 1788 |
| **Units:** | meters/second |
| **Resolution:** | 0.01 |

**Roughess**

Bottom roughness (Source: processing software dbSEABED MNEs)

*coded to espress the height and length of the bottom feature with the greatest aspect ratio*

**LgCrShSt**

Log critical shear stress (Source: processing software dbSEABED MNEs)

| Value | Definition |
|---|---|
| -99 | no information |

| Range of values | |
|---|---|
| **Minimum:** | -1.33 |
| **Maximum:** | 1.7 |
| **Units:** | log10 of tau, in kiloPascals |
| **Resolution:** | 0.01 |

**SamplePhase**

Sample Phase/other information (Source: processing software dbSEABED MNEs)

*non-unique text of other data location information*

## Who produced the data set?

1. **Who are the originators of the data set?** (may include formal authors, digital compilers, and editors)

    - U.S. Geological Survey
    - Jane A. Reid

2. **Who also contributed to the data set?**

    Contributors to this dataset are the original authors and agencies; at the USGS Santa Cruz and Menlo Park are Jane A. Reid, Kelly Halimeda Kilbourne, Carolynn Box, Tara Kneeshaw, Michael Field, and April Villagomez. Also Chris Jenkins at the University of Colorado, Boulder, CO and Mark Zimmermann, National Marine Fisheries Service, Seattle, WA

3. **To whom should users address questions about the data?**

    U.S. Geological Survey
    c/o Jane A. Reid
    400 Natural Bridges Drive
    Santa Cruz, CA 95060

    (831) 427-4727 (voice)
    jareid@usgs.gov

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## Why was the data set created?

These data are provided to give information on surfical geology, including sediment texture and areas of no sediment cover. These data are intended for science researchers, students, policy makers, and the general public.

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## How was the data set created?

1. **From what previous works were the data drawn?**

    **DataSetKey 17: SCCWRP 94** (source 1 of 19)

    Southern California Coastal Water Research Project (SCCWRP), 1999, Data from the SCCWRP 1994 Pilot Project: Southern California Coastal Water Research Project, Westminster, CA.

    Online Links:

    - <http://www.sccwrp.org>

    *Type_of_Source_Media:* Digital
    *Source_Contribution:*

point locations, color (Munsell code), %gravel, %sand, %silt, %clay, %mud, first moment, standard deviation, %gravel & sand, Folk & Ward skewness, Folk & Ward kurtosis, Inman mean, Inman sorting, Inman skewness, Inman skewness 2, Inman kurtosis, sand/mud, phi class grainsize, lithologic descriptions, biota

**DateSetKey 82, DataSetKey 187, DatasetKey 194: Deck 41** (source 2 of 19)

National Oceanic Data Center, 1975, Deck 41: National Geophysical Data Center, Boulder, Colorado.

Online Links:

- <http://www.ngdc.noaa.gov/mgg/geology/deck41.html>

*Other_Citation_Details:*
This is a compilation of more than 200 datasets, representing 36,000 data points worldwide. Some data in the geographic spatial domain are not included because they are included under the original source.

*Type_of_Source_Media:* digital data
*Source_Contribution:*
citation information, MGGID number, nodcref number, consec number, ship-cruise, station, device, date, latitude, longitude, water_depth, depth_top, depth_bot, dominant lithology, secondary lithology, description,

**DataSetKey 204: NS&T MusselWatch** (source 3 of 19)

Center for Coastal Monitoring a, National Ocean Service, National Oceanic, Unpublished material, National Status and Trends Mussel Watch.

Online Links:

- <http://ccma.nos.noaa.gov/cit/data/mw_details.html>
  <http://gcmd.nasa.gov/records/GCMD_ORCA_CMBAD_NS_T_MWP.html>

*Other_Citation_Details:*
Part of an ongoing long-term database of sediment and bivalve tissue chemistry of over 80 organic and inorganic contaminants; bivalve histology, Clostridium perfringens, sewarge marker data. Over 300 sites in coastal waters of the United States and the Great Lakes.

*Type_of_Source_Media:* digital
*Source_Contribution:*
Citation, latitude, longitude, date, province, operator, sample_top, sample_bottom, % gravel, % sand, % silt, %mud

**DataSetKey 216: Smithsonian** (source 4 of 19)

National Museum of Natural Hist, Smithsonian Institution, Unpublished material, Untitled: Compilation of NOS datasheets.

Online Links:

- None.

*Other_Citation_Details:*
unpublished database; Data received from Carla Moore, NGDC, in October 2001 via email.

*Type_of_Source_Media:* digital
*Source_Contribution:*
Smithsonian identifier, catalog number, ship, project reference, collection date, location, latitude, longitude, water depth, sampler type, sample description, % gravel, % sand, % silt, % mud, % clay

**DataSetKey 237: MF-737** (source 5 of 19)

U.S. Geological Survey, Vedder, J.G., Taylor, J.C., Arnal, R.E., and Bukry, David, 1976, Map showing locations of selected pre-Quaternary rock samples from California continental borderland: Miscellaneous Field Studies MS-737, U.S. Geological Survey, Menlo Park, CA.

*Other_Citation_Details:* 3 maps

*Type_of_Source_Media:* paper map
*Source_Scale_Denominator:* 250,000
*Source_Contribution:*
latitude, longitude, water_depth, lithologic description, age/stage

**DataSetKey 238: OFR92-342** (source 6 of 19)

U.S. Geological Survey, Gardner, J.V., Dean, W.E., and Kayen, R., 1992, Data from USGS Cruise F2-92 of central and southern CA (initial descriptions): Open-file Report 92-342, U.S. Geological Survey, Menlo Park, CA.

Online Links:

- cruise information at <http://walrus.wr.usgs.gov/infobank/f/f292sc/html/f-2-92-sc.meta.html>

*Type_of_Source_Media:* paper
*Source_Contribution:*
Site name, latitude, longitude, water depth, core recovery length, sample top, sample bottom, lithology description, Munsell color code

**DataSetKey 242: MGG 09005058** (source 7 of 19)

U.S. Naval Civil Engineering Laboratory (NCEL), Valent, P.J., Lee, H.J., and National Geophysical Data Center, 1971, Report Number 1: NCEL Core Data - Santa Barbara Channel Area; Reconnaissance study for the proposed California Undersea Aqueduct: U.S. Navy, Point Hueneme, CA.

Online Links:

- <http://oas.ngdc.noaa.gov/mgg/plsql/geolin.set_expand?v_mggid=09005058>

*Other_Citation_Details:* Bureau of Reclamation, Denver, CO, Contract number 14-06-D-7210

*Type_of_Source_Media:* digital
*Source_Contribution:*
Site name, latitude, longitude, water depth, sampling device, site date, sample top, sample bottom, % gravel, % sand, % silt, % clay

**DataSetKey 261: MGG 09185006** (source 8 of 19)

U.S. Navy Oceanographic Office (NavOceanO), Coleman, Jess B. , Grimes, Alvin R. , and National Geophysical Data Center, 1964, Lab Item 242: A summary of sediment size, composition, and engineering properties for PMR Project 5R-006.

Online Links:

- <http://oas.ngdc.noaa.gov/mgg/plsql/geolin.set_expand?v_mggid=09185006>

*Type_of_Source_Media:* digital
*Source_Contribution:*
Site name, latitude, longitude, water depth, sampling device, site date, core recovery length, sample top, sample bottom, % gravel, % sand, % silt, % clay, median grainsize, micron grainsize, quartile sorting, quartile skewness, carbonate %, organic carbon %, lithologic description, odor, Shepard class, Munsell color code, phi size class percentages.

**DataSetKey 262: MGG 09005019** (source 9 of 19)

U.S. Navy Oceanographic Office (NavOceanO), Hill, David S. , Oser, Robert K. , Rohrhirsch, Joseph M. , and National Geophysical Data Center, 1965, Lab Item 227: A summary of sediment size, composition, and engineering properties for PMR project R-006.

Online Links:

- <http://oas.ngdc.noaa.gov/mgg/plsql/geolin.set_expand?v_mggid=09005019>

*Other_Citation_Details:* Bureau of Reclamation, Denver, CO, Contract number 14-06-D-7210

*Type_of_Source_Media:* digital
*Source_Contribution:*
Site name, latitude, longitude, water depth, sampling device, site date, sample top, sample bottom, % gravel, % sand, % silt, % clay

**DataSetKey 265: MGG 09695001** (source 10 of 19)

U.S. Navy Oceanographic Office (NavOceanO), Achstetter, Eugene V. , Kelly, Eugene V. , Loomis, P. Burr , McKellar, Scott M. , and National Geophysical Data Center, 1970, Lab Item 398: A summary of sediment size, composition, and engineering properties of three cores from the eastern Pacific.

Online Links:

- <http://oas.ngdc.noaa.gov/mgg/plsql/geolin.set_expand?v_mggid=09695001>

*Type_of_Source_Media:* digital
*Source_Contribution:*
Site name, latitude, longitude, water depth, sampling device, site date, core recovery length, sample top, sample bottom, % gravel, % sand, % silt, % clay, median grainsize, micron grainsize, quartile sorting, quartile skewness, carbonate %, organic carbon %, lithologic description, odor, Shepard class, Munsell color code, phi size class percentages.

**DataSetKey 268: Scholl MS 1959** (source 11 of 19)

Scholl, David W. , 1959, Geology and surrounding recent marine sediments of Anacapa Island: University of Southern California, Los Angeles, CA.

*Other_Citation_Details:* Masters Thesis

*Type_of_Source_Media:* Paper
*Source_Contribution:*
Site name, latitude, longitude, sampling device, site date, median grainsize (phi), undefined sorting, carbonate %, formation, lithologic description, geological age description

**DataSetKey 283: SEDDATA** (source 12 of 19)

University of Southern California, and Gorsline, Donn, Unpublished material, SEDDATA database.

*Other_Citation_Details:*
Unpublished digital database of government-funded samples from University of Southern California, including some Allan Hancock Foundation samples. May overlap data from Emery and Hulsemann 1964, Barnes 1970, Smith 1970, Wright 1967, and Gorsline 1958, also given in this report. Database emailed to Jane Reid, USGS, by Donn Gorsline on July 31, 2001

*Type_of_Source_Media:* digital
*Source_Contribution:*
sitename, latitude, longitude, %gravel, %sand, %silt, %clay, average grainsize, standard deviation, skewness, kurtosis, % carbonate, %organic carbon, bulk density

**DataSetKey 284: Smith_PhD** (source 13 of 19)

Smith, Stephen V. , 1970, Calcium carbonate budget of the southern California borderland: HIG 70-11, University of Southern California, Los Angeles, CA.

*Other_Citation_Details:*
Locations may duplicate the SEDDATA database, also given in this report.

*Type_of_Source_Media:* paper
*Source_Contribution:*
Sitename, latitude, longitude, %aragonite, %dolomite, %Mg_calcite in carbonate

**DataSetKey 284: Barnes_PhD** (source 14 of 19)

Barnes, Peter W. , 1970, Marine geology and oceanography of Santa Cruz basin off southern California.

*Other_Citation_Details:*
PhD. dissertation, University of Southern California. Locations and data may overlap the SEDDATA database, also given here.

*Type_of_Source_Media:* paper
*Source_Contribution:*
Site name, latitude, longitude, mean grainsize, statistical skewness, statistical kurtosis, % carbonate, % organic carbon, %nitrogen

**DataSetKey 286: Emery_&_Shepard_1941** (source 15 of 19)

Emery, K.O., Shepard, F.P., and Scripps Institution of Oceanography, 1941, Lithology of the sea floor off of Southern California: Bulletin of the Geological Society of America v. 56, pp. 431-473, Geological Society of America, need to get.

*Type_of_Source_Media:* paper
*Source_Contribution:*
Site name, latitude, longitude, water depth, sampling device, lithologic description, number, size, and shape of samples

**DataSetKey 288: Emery_&_Hulsemann_1963** (source 16 of 19)

Emery, K.O., and Hulsemann, Jobst, 1963, Submarine canyons of southern California: Allan Hancock Pacific Expeditions v. 27, pt. 1, University of Southern California, Los Angeles, CA.

*Other_Citation_Details:* Also at NGDC as MGG 27025001; not used here

*Type_of_Source_Media:* paper
*Source_Contribution:*
Site name, latitude, longitude, water depth, lithologic descriptions, sedimentary environment, %gravel, % sand, % silt, % clay, % mud, median grainsize, quartile sorting, % carbonate, % organic carbon, % nitrogen

**DataSetKey 303: Wright_PhD_1967** (source 17 of 19)

Wright, Frederick Fanning , 1967, The marine geology of San Miguel Gap off Point Conception, California: University of Southern California, Los Angeles, CA.

*Other_Citation_Details:*
PhD. dissertation, University of Southern California Data and locations may overlap the SEDDATA database, also given here.

*Type_of_Source_Media:* paper
*Source_Contribution:*
Site name, latitude, longitude, water depth, sampling device, sampler recovery length, lithologic description, sample top, sample bottom, % gravel, % sand, % silt, % clay, median grainsize, Munsell color code, bulk density, petrographic analyses.

**DataSetKey 304: Gorsline_PhD_1958** (source 18 of 19)

Gorsline, Donn S. , 1958, Marine geology of San Pedro and Santa Monica basins and vicinity, California: University of Southern California, Los Angeles, CA.

*Other_Citation_Details:*
PhD. dissertation, University of Southern California. Locations and data may overlap the SEDDATA database, also given here

*Type_of_Source_Media:* paper
*Source_Contribution:*
Site name, latitude, longitude, water depth, sampling device, sample top, sample bottom,% gravel, % sand, % silt, % clay, % mud, median grainsize, first quartile sorting, third quartile sorting, % carbonate, % nitrogen, lithologic description, petrographic analyses

**DataSetKey 348: Bight98** (source 19 of 19)

Southern California Coastal Water Research Project (SCCWRP), 2004, Bight '98 Survey: SCCWRP, Westminster, CA.

Online Links:

- <http://www.sccwrp.org/data/bight98.htm>

*Other_Citation_Details:*
grainsize data emailed to Jane Reid, USGS, by Larry Cooper, SCCWRP, October 2004 grainsize data linked to location information in GrabEventData file by hand, using the last location given per station. This is following the original metadata that stated other data would be taken from the earlier sampling attempts per station.

*Type_of_Source_Media:* digital
*Source_Contribution:*
Site name, latitude, longitude, water depth, sampler, date, time, color, seafloor description, odor, median grainsize, mean grainsize, standard deviation,% organic carbon, % nitrogen, phi grainsize classes.

2. **How were the data generated, processed, and modified?**

   Date: (process 1 of 1)
   Data were digitized as needed and hand-edited into dbSEABED format. Data quality and assessment performed with dbSEABED relational database program (RDBi, version 1/6/05) to ensure correctness of formatting. Also tested data with plausibility filters to ensure reasonable of data, (RDBi, version 1/6/05). Iteratively processed through dbSEABED filtering and mining software program (MNEs, version 2/10/05) to ensure completeness of formatting and meaning. Combined dbSEABED MNEs outputs using dbSEABED unifying program (ONEg, version 9/7/04, extracted data preferentially chosen). Hand-edited to remove downcore data and duplicate analyses; Subsurface data are not included. Data were iteratively tested in a GIS for locational correctness, consistency, and appropriateness of results.

   Person who carried out this activity:

   Jane A. Reid
   U.S. Geological Survey
   400 Natural Bridges Drive
   Santa Cruz, CA 95060

   (831) 427-4727 (voice)
   jareid@usgs.gov

   Data sources used in this process:
   - See: <http://instaar.colorado.edu/~jenkinsc/dbseabed/dbseabed.html> for information on dbSEABED philosophy, process, and outputs.

   Data sources produced in this process:

   - scasmpl.txt

3. **What similar or related data should the user be aware of?**

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## How reliable are the data; what problems remain in the data set?

1. **How well have the observations been checked?**

   Accuracy of each attribute is dependent on the accuracy of the lineage data.

2. **How accurate are the geographic locations?**

   Locational accuracy is dependent on the accuracy of the navigational technique from the lineage source and may vary from 0.005km (differential GPS) in more recent surveys to greater than 2 km based on radar, Loran, or dead reckoning in older surveys. Users of the data should use their own criteria for assessing the accuracy of the locations.

3. **How accurate are the heights or depths?**

Locational accuracy is dependent on the accuracy of the navigational technique from the lineage source. Users of the data should use their own criteria for assessing the accuracy of the locations.

4. **Where are the gaps in the data? What is missing?**

   Only data from the topmost portion of the sample are published (<0.05 m top depth). Downcore information exists for many of the samples. Additional useable data may exist in this area; the authors appreciate any information and leads.

5. **How consistent are the relationships among the observations, including topology?**

   Data in usSEABED are based on the observations and analyses of others, filtered through a unifying and mining software. Each source report varies in what is recorded and in what format. Only those observations that are recorded can be filtered and mined; only presence (not absence) or information can be noted.

   Users of the data should note the code in the field "DataTypes" to determine the origin of the information in the following fields. E = based directly on analytical data and are very reliable as the data were measured directly; P = based on verbal descriptive data and are less reliable and may represent the entire sample (including stones, shells, biota, and other non-typical textural data). Values are determined using fuzzy-set-theory-based filters passed over qualitative data. Values have been adjusted to match the mean values of analytical data. C = calculated from other information and various assumptions. These are the least reliable data due to the reliance on fuzzy set theory and assumed values for constants and appropriate use of equations to derive values. x = no information

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## How can someone get a copy of the data set?

**Are there legal restrictions on access or use of the data?**

*Access_Constraints:* None
*Use_Constraints:*
Cite the U.S. Geological Survey and its partners as originators of the dataset.

1. **Who distributes the data set?** (Distributor 1 of 1)

   United States Geological Survey (USGS)
   c/o Guy R. Cochrane
   Geophysicist
   USGS, 400 Natural Bridges Drive
   Santa Cruz, CA 95060-5792
   USA

   (831) 427-4754 (voice)
   (831) 427-4748 (FAX)
   gcochrane@usgs.go

2. **What's the catalog number I need to order this data set?**

3. **What legal disclaimers am I supposed to read?**

   Please recognize the U.S. Geological Survey (USGS) as the source of this information.

   Although these data have been used by the U.S. Geological Survey, U.S. Department of the Interior, no warranty expressed or implied is made by the U.S. Geological Survey as to the accuracy of the data.

   The act of distribution shall not constitute any such warranty, and no responsibility is assumed by the U.S. Geological Survey in the use of this data, software, or related materials.

4. **How can I download or order the data?**

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## Who wrote the metadata?

Dates:
Last modified:
Last Reviewed: 2005

Metadata author:
Jane A. Reid
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Santa Cruz, CA 95060

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jareid@usgs.gov

Metadata standard:
FGDC Content Standards for Digital Geospatial Metadata ("CSDGM version 2") (FGDC-STD-001-1998)

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